PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SCB 829 PCT			t's file reference	FOR FURTHER ACT	ΓΙΟΝ	See Notification Preliminary Ex	n of Transmittal of International amination Report (Form PCT/IPEA/416)
	Internation of processing			International filing date (da 22.12.2003	ay/mont	h/year)	Priority date (day/month/year) 15.04.2003
1	national L1/221		t Classification (IPC) or b	oth national classification and	d IPC		
Appil IND		S.P.A	. et al.				
1.	This i	ntern ority a	ational preliminary exa and is transmitted to the	mination report has been e applicant according to A	prepa Inticle 3	red by this Inte 6.	ernational Preliminary Examining
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	These annexes consist of a total of sheets.						
3.	This	repoi	t contains indications :	relating to the following ite	ems:		
	1	⊠	Basis of the opinion				
	11		Priority				
	H		Non-establishment o	f opinion with regard to no	ovelty,	inventive step	and industrial applicability
	IV Lack of unity of invention						
	V 🛮 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	VI		Certain documents of				
	VII		Certain defects in the	e international application			
	VIII		Certain observations	on the international appli	ication		
Dat	te of sut	missi	on of the demand		Date o	of completion of	this report
28	28.10.2004			16.0	9.2005		
Na pre	Name and mailing address of the international preliminary examining authority:			Autho	rized Officer	gentudas Palancay	
-	9)	NI	uropean Patent Office - P. 2280 HV Rijswijk - Pays al. +31 70 340 - 2040 Tx: ax: +31 70 340 - 3016	Bas	1	ren, A hone No. +31 7	0 340-3933

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/14702

I.	Bas	eie.	of	the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages				
	1-1	3	as originally filed			
	Cla	aims, Numbers				
	1-1	1	as originally filed			
2.	Wit lan	th regard to the lang u guage in which the in	lage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were av	railable or furnished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
			anslation furnished for the purposes of international preliminary examination (under			
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.			
			e international application in computer readable form.			
			ntly to this Authority in written form.			
		furnished subsequer	ntly to this Authority in computer readable form.			
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.			
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this			
6.	Add	itional observations, i	f necessary:			

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International application No.

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-11

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-11

Industrial applicability (IA) Yes: Claims 1-11

No: Claims

2. Citations and explanations

see separate sheet

- 1. The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:
 - D1: FR-A-1 156 084 (MCCORMICK & COMPANY) 12 May 1958 (1958-05-12)
 - D2: RUIZ-TERAN F ET AL: "Enzymatic extraction and transformation of glucovanillin to vanillin from vanilla green pods." JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY 49 (11) 5207-5209 2001 CORRESPONDENCE (REPRINT) ADDRESS, A. LOPEZ-MUNGUIA, INST. DE BIOTEC., UNAM, APDO. POSTAL 510-3, CUERNAVACA, MOR. 62271, MEXICO. TEL. 52-56 22 76 37. FAX 52-73 17 23 88. E-MAIL AGUSTIN(, XP002275039
 - D3: WO 93/25088 A (MANE JEAN ;MANE V FILS SA (FR); ZUCCA JOSEPH (FR)) 23 December 1993 (1993-12-23)
 - D4: WO 93/04597 A (PERNOD RICARD) 18 March 1993 (1993-03-18)
 - D5: EP-A-0 354 118 (ELF AQUITAINE) 7 February 1990 (1990-02-07)

2. INVENTIVE STEP OBJECTIONS

D2 describes processes for the preparation of a vanilla extract. Traditional process contains curing/browning at 60°C followed by incubation. Enzymatic process comprises a) treatment with cellulase and hemicellulase enzyms, b) purification with ethanol to a vanillin enriched concentrate (see relevant passages search report).

D3 describes a process for the preparation of a vanilla extract comprising heat treatment with 45°C, cellulase and hemicellulase treatment (15-60°C, 1-48 hours) and final ethanol extraction to recover vanilla extract (see relevant passages search report).

D4 describes a process for the preparation of a vanilla extract comprising incubation, cellulase and hemicellulase treatment (3-30 hours, pH 3-7, 30-40°C) and final ethanol extraction to recover vanilla extract (see relevant passages search report).

D1 describes a process for manufacturing vanilla extract comprising browning of beans between 20-80°C (viellissement), extraction with ethanol, enzymatic treatment (cellulase and hemicellulase mentioned (see relevant passages search report)) and finally

purification with ethanol. A skilled person, especially when being aware of D2-D4, would use cellulase and hemicellulase as preferred enzyms. Consequently, the subject matter of claim 1 is considered as being not inventive in view of D1-D4 (Art 33(3) PCT).

Dependent claims 2-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

The features of dependent claims 2-11 have already been employed for the same purpose (see documents D1-D5). It would therefore be obvious to the person skilled in the art, to apply these features with corresponding effect. Consequently, the subject matter of claims 2-11 is considered as being not inventive in view of D1-D5 (Art 33(3) PCT).

None of the in claims 1-11 listed processes is considered to be inventive in view of D1-D5 (Art 33(3) PCT). Having regard to the claimed processes and the prior art known (D1-D5), it is considered that the man skilled in the art would regard these processes of the present invention (as far as novel) as an obvious alternative to those known. Therefore, unless an unexpected effect for the present processes (as far as novel) over the prior art disclosure from D1-D5 can be demonstrated, these processes do not fulfill the requirements of Art 33(3) PCT.